



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: David T. Chen et al.
Serial No.: 10/653,719
Filing Date: 09/02/2003
For: ANATOMICAL VISUALIZATION
SYSTEM
Group Art Unit: 3739
Examiner: John P. Leubecker
Attorney's Docket No.: MMS-2E CON 3

Mail Stop Amendment
Commissioner for Patents
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Alexandria, VA 22313-1450

Sir:

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November 30, 2005

(DATE OF DEPOSIT)

Margaret M. Slezak

(NAME OF ATTORNEY)

Margaret M. Slezak
(SIGNATURE)

November 30, 2005

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR 1.56, 1.97 and 1.98, Applicants hereby submit information which may be considered material to the examination of this application. This information is listed on the accompanying form.

Copies of documents 1-40, which are listed on the accompanying form
PTO/SB/08A (three pages), were previously submitted to, or cited by, the Office in U.S.
Application Serial No. 08/505,587 and 09/874,869. Applicants respectfully request that these documents be fully considered by the U.S. Patent and Trademark Office during the examination of this application and printed on any patent which may issue on this application. Applicants also respectfully request that a copy of PTO/SB/08A (three pages), as considered and initialed by the Examiner, be returned to the undersigned with the next communication.

A check in the amount of One Hundred Eighty Dollars (\$180.00) payable to the Commissioner of Patents and Trademarks is also enclosed herewith to cover the fee due in connection with this submission.

It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97 and 1.98. If for any reason the Examiner considers otherwise, it is respectfully requested that the undersigned be contacted by the Examiner by telephone in order that any deficiencies may be expeditiously remedied.

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MMS-2E CON 3

Please charge any additional fees due in connection with this submission, or credit any overpayment, to Deposit Account No. 16-0221. A duplicate copy of this submission is enclosed for the convenience of the Examiner.

Thank you.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Margaret M. Slezak", with a stylized flourish at the end.

Margaret M. Slezak, Esq.
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(Use as many sheets as necessary)

Sheet	1	of	3
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Application Number	10/653,719
Filing Date	09/02/2003
First Named Inventor	David T. Chen et al.
Art Unit	3739
Examiner Name	John P. Leubecker
Attorney Docket Number	MMS-2E CON 3

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 5,255,352	10-19-1993	Falk	
	2	US- 4,729,098	03-01-1988	Cline et al.	
	3	US- 4,882,679	11-21-1989	Tuy et al.	
	4	US- 5,537,638	07-16-1996	Morita et al.	
	5	US- 4,945,478	07-31-1990	Merickel et al.	
	6	US- 4,965,844	10-23-1990	Oka et al.	
	7	US- 4,985,855	01-15-1991	Aldrich et al.	
	8	US- 4,989,083	01-29-1991	Eino	
	9	US- 5,005,559	04-09-1991	Blanco et al.	
	10	US- 5,151,856	09-29-1992	Halmann et al.	
	11	US- 5,531,227	07-02-1996	Schneider	
	12	US- 5,179,638	01-12-1993	Dawson et al.	
	13	US- 5,230,623	07-27-1993	Guthrie et al.	
	14	US- 5,231,483	07-27-1993	Sieber et al.	
	15	US- 5,511,153	04-23-1996	Azarbayejani et al.	
	16	US- 5,274,551	12-28-1993	Corby Jr.	
	17	US- 5,291,889	03-08-1994	Kenet et al.	
	18	US- 5,295,199	03-15-1994	Shino	
	19	US- 5,297,215	03-22-1994	Yamagishi	

[illegible]

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

3

Complete if Known

Application Number	10/653,719
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		Number-Kind Code ² (if known)			
	20	US- 5,319,551	06-07-1994	Sekiguchi et al.	
	21	US- 5,329,310	07-12-1994	Liljegren et al.	
	22	US- 5,363,476	11-08-1994	Kurashige et al.	
	23	US- 5,378,915	01-03-1995	Hines et al.	
	24	US- 5,383,454	01-24-1995	Bucholz	
	25	US- 5,384,594	01-24-1995	Sieber et al.	
	26	US- 5,398,684	03-31-1995	Hardy	
	27	US- 5,497,452	03-05-1996	Shimizu et al.	
	28	US- 5,447,154	09-05-1995	Cinquin et al.	
	29	US- 5,448,687	09-05-1995	Hoogerhyde et al.	
	30	US- 5,461,706	10-24-1995	Trow et al.	
	31	US- 5,493,595	02-20-1996	Schoolman	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/653,719
		Filing Date	09/02/2003
		First Named Inventor	David T. Chen et al.
		Art Unit	3738
		Examiner Name	John P. Leubecker
Sheet 3	of 3	Attorney Docket Number	MMS-2E CON 3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	32	KAWATA et al., Three Dimensional Imaging Of Blood Vessels Using Cone-Beam CT, IEEE Computer Society Press, Proceedings ICIP, 1994, 140-144, vol. 2.	
	33	KLEIN et al., Identifying Vascular Features With Orientation Specific Filters And B-Spline Snakes, IEEE Computer Society Press, Computers in Cardiology, 1994, 113-116.	
	34	CHEN et al., Left Ventricle Global Motion And Shape From CT Volumetric Data, IEEE, April 1993, V-101 - V-104.	
	35	VANRODEN, Don't Look Now, But a Body Has Been Found in the Basement of Cummings Hall, Dartmouth Thayer School of Engineering Directions, Fall 1993, 30-36, vol. 8, no. 1, Trustees of Dartmouth College, Hanover, New Hampshire.	
	36	ROBERTS et al., A frameless stereotaxic integration of computerized tomographic imaging and the operating microscope, Journal of Neurosurgery, October 1986, 545-549, vol. 65.	
	37	WEISBURN et al., An interactive graphics editor for 3D surgical simulation, SPIE, 1986, 483-490, vol. 626, Medicine XIV/PACS IV.	
	38	SHALEV et al., Pseudo-3D imaging with the DICON-8, SPIE, 1985, 63-66, vol. 555, Medical Imaging and Instrumentation '85.	
	39	FOWLER, Computers May Drive Revolution in Neurosurgery Techniques, Washington Post, Science, August 15, 1994.	
	40	APPLICANTS' IRA Magaziner Demo (SeeTM), displayed June 1993, (24 minutes)	

Examiner Signature	Date Considered
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